



Water-Data Report 2008

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°35'33", long 75°11'10" referenced to North American Datum of 1983, Pohatcong Township, Warren County, NJ, Hydrologic Unit 02040105, at bridge on Riegelsville-Milford Road (County Route 627) in Riegelsville, 0.2 mi north of Mount Joy, and 0.2 mi upstream from mouth.

DRAINAGE AREA.--156 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1940-55, 1973, 1977 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Date	Discharge, in ft ³ /s
Dec 3, 2007	381
Mar 4, 2008	475
Jun 3, 2008	223
Sep 3, 2008	73.7

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1962, 1976 to current year.

REMARKS.--Cooperative Network Site Descriptor: Watershed Integrator and Statewide Status Site, NJ Department of Environmental Protection
Watershed Management Area 1.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 5

[Remark codes: <, less than; E, estimated.]

Date	Time	Turbdty white light, det ang 90+/-30 dis- charge, corrctd	UV absorb- ance, 254 nm, wat flt units	UV absorb- ance, 280 nm, wat flt units	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	
Dec 03...	0840	381	3.5	.070	.053	751	13.5	100	8.0	413	8.5	2.9	110
Mar 04...	1440	475	2.1	.048	.037	755	12.1	100	7.8	--	8.0	7.2	130
Jun 03...	1010	223	4.4	.057	.043	755	9.5	100	8.0	425	26.0	17.5	150
Sep 03...	0810	74	3.1	.044	.034	755	8.9	95	7.9	508	22.0	18.4	180

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 5

[Remark codes: <, less than; E, estimated.]

Date	Calcium water, filtrd, mg/L (00915)	Magnes- ium, water, filtrd, mg/L (00925)	Potas- sium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L (00930)	ANC, wat unf fixed end pt, mg/L as CaCO ₃ (90410)	Chlor- ide, lab, mg/L (00940)	Fluor- ide, water, filtrd, mg/L (00950)	Silica, water, filtrd, mg/L as SiO ₂ (00955)	Sulfate water, filtrd, mg/L (00945)	Residue water, filtrd, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non- filter- able, mg/L (00530)	Ammonia + org-N, water, filtrd, mg/L as N (00623)
Dec 03...	25.6	10.9	1.52	34.9	80	64.6	E.09	7.2	14.8	E214	217	2	.18
Mar 04...	28.6	13.0	1.54	34.1	89	64.3	E.10	7.7	17.3	E228	235	5	.20
Jun 03...	32.9	15.7	1.64	26.1	111	49.4	E.08	9.4	17.0	E229	237	9	.22
Sep 03...	38.0	21.4	2.54	28.5	149	53.4	E.07	8.7	19.7	E276	286	2	.22

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 5

[Remark codes: <, less than; E, estimated.]

Date	Ammonia water, filtrd, mg/L as N (00608)	Nitrate + nitrite water, filtrd, mg/L as N (00631)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, water, filtrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Ortho-phosphate, water, filtrd, mg/L as P (00671)	Phosphorus, water, filtrd, mg/L as P (00666)	Phosphorus, water, unfltrd mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, filtrd, mg/L (00681)	Arsenic water, filtrd, µg/L (01000)
Dec 03...	.028	1.47	.06	1.7	1.7	E.009	.010	.023	.5	<.04	.5	2.3	--
Mar 04...	.014	1.75	.04	2.0	2.0	E.009	E.007	.017	.3	<.04	.3	1.7	.27
Jun 03...	.013	2.17	.08	2.4	2.5	.018	.024	.043	.7	<.04	.7	2.0	--
Sep 03...	.021	3.14	E.04	3.4	E3.4	.011	.017	.022	.3	<.04	.3	1.8	.47

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 5

[Remark codes: <, less than; E, estimated.]

Date	Arsenic water, unfltrd µg/L (01002)	Barium, unfltrd recover -able, µg/L (01007)	Beryllium, water, unfltrd recover -able, µg/L (01012)	Boron, water, filtrd, recover -able, µg/L (01020)	Boron, water, unfltrd recover -able, µg/L (01022)	Cadmium water, unfltrd recover -able, µg/L (01027)	Chromium, water, unfltrd recover -able, µg/L (01034)	Copper, water, unfltrd recover -able, µg/L (01042)	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, unfltrd recover -able, µg/L (01051)	Manganese, water, unfltrd recover -able, µg/L (01055)	Mercury, water, unfltrd recover -able, µg/L (71900)	Nickel, water, unfltrd recover -able, µg/L (01067)
Dec 03...	--	--	--	16	--	--	--	--	--	--	--	--	--
Mar 04...	E.35	20.1	<.04	14	14	.02	E.35	<1.2	164	.33	14.0	<.010	.31
Jun 03...	--	--	--	18	--	--	--	--	--	--	--	--	--
Sep 03...	E.49	23.6	<.04	23	25	<.01	E.28	1.7	99	.28	12.5	<.010	2.9

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO
SEPTEMBER 2008

Part 5 of 5

[Remark codes: <, less than; E, estimated.]

Date	Selen- ium, water, unfiltrd μg/L (01147)	Silver, water, recover μg/L (01077)	Zinc, water, recover μg/L (01092)
Dec 03...	--	--	--
Mar 04...	.19	<.02	2.7
Jun 03...	--	--	--
Sep 03...	.25	<.02	2.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 7

[Remark codes: <, less than; E, estimated.]

Date	1-Naph- thol, water, filtrd 0.7u GF	2,6-Di- ethyl- aniline water, filtrd 0.7u GF	2Chloro- -2',6'- diethyl acet- anilide wat flt	CIAT, water, filtrd, μg/L (49295)	2-Ethyl- -6- methyl- chloro- aniline water, filtrd, μg/L (82660)	3,4-Di- chloro- aniline water, filtrd, μg/L (61618)	3,5-Di- chloro- aniline water, filtrd, μg/L (04040)	4-Chloro- 2methyl phenol, water, filtrd, μg/L (61620)	Aceto- chlor, water, filtrd, μg/L (61625)	Ala- chlor, water, filtrd, μg/L (61633)	alpha- Endo- sulfan, water, filtrd, μg/L (49260)	Atra- zine, water, filtrd, μg/L (46342)	Azin- phos- methyl oxon, water, filtrd, μg/L (34362)
Jun 03...	<.04	<.006	<.010	E.030	<.010	<.006	<.008	<.005	E.007	<.007	<.006	.020	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 7

[Remark codes: <, less than; E, estimated.]

Date	Azin- phos- methyl, water, filtrd 0.7u GF	Ben- flur- alin, water, filtrd 0.7u GF	Car- baryl, water, filtrd 0.7u GF	Carbo- furan, water, filtrd 0.7u GF	Chlor- pyrifos oxon, water, filtrd 0.7u GF	Chlor- pyrifos water, filtrd, μg/L (61636)	Per- methrin water, filtrd, μg/L (38933)	cis- Propi- conazole, water, filtrd, μg/L (82687)	cis- Cyana- zine, water, filtrd, μg/L (79846)	lambda- Cyhalo- thrin, water, filtrd, μg/L (04041)	Cyflu- thrin, water, filtrd, μg/L (61585)	Cyper- methrin water, filtrd, μg/L (61586)	DCPA, water, filtrd 0.7u GF
Jun 03...	<.120	<.010	<.060	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 7

[Remark codes: <, less than; E, estimated.]

Date	Desulf- inyl- fipro- nil, water, fltrd, μg/L (62170)	Diazi- non, water, fltrd, μg/L (39572)	Dicro- tophos, water, fltrd, μg/L (38454)	Diel- drin, water, fltrd, μg/L (39381)	Dimeth- oate, water, 0.7u GF (82662)	Disulf- oton sulfone, water, fltrd, 0.7u GF (61640)	Disul- foton, water, fltrd, 0.7u GF (82677)	Endo- sulfan sulfate, water, fltrd, 0.7u GF (61590)	EPTC, water, fltrd, μg/L (82668)	Ethion monoxon, water, fltrd, μg/L (61644)	Ethion, Ethion, water, fltrd, μg/L (82346)	Etho- prop, water, fltrd, 0.7u GF (82672)	Fenami- phos sulfone water, fltrd, μg/L (61645)
Jun 03...	<.012	<.005	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.006	<.012	<.053

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 7

[Remark codes: <, less than; E, estimated.]

Date	Fenami- phos sulf- oxide, water, fltrd, μg/L (61646)	Fenami- phos, water, fltrd, μg/L (61591)	Desulf- inyl- fipro- nil amide, wat flt (62169)	Fipro- nil sulfide, water, fltrd, μg/L (62167)	Fipro- nil sulfone, water, fltrd, μg/L (62168)	Fipro- nil, water, fltrd, μg/L (62166)	Fonofos water, fltrd, μg/L (04095)	Hexa- zinone, water, fltrd, μg/L (04025)	Ipro- dione, water, fltrd, μg/L (61593)	Isofen- phos, water, fltrd, μg/L (61594)	Mala- xon, water, fltrd, μg/L (61652)	Mala- thion, water, fltrd, μg/L (39532)	Meta- laxyl, water, fltrd, μg/L (61596)
Jun 03...	<.20	<.03	<.029	<.013	<.024	E.007	<.010	<.008	<.01	<.006	<.020	<.016	<.007

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 7

[Remark codes: <, less than; E, estimated.]

Date	Methid- athion, water, fltrd, μg/L (61598)	Methyl para- oxon, water, fltrd, μg/L (61664)	Methyl para- thion, water, 0.7u GF (82667)	Metola- chlor, water, fltrd, μg/L (39415)	Metri- buzin, water, fltrd, μg/L (82630)	Moli- nate, water, fltrd, 0.7u GF (82671)	Myclo- butanil water, fltrd, μg/L (61599)	Oxy- fluor- fen, water, fltrd, 0.7u GF (61600)	Pendi- meth- alin, water, fltrd, 0.7u GF (82683)	Phorate oxon, water, fltrd, μg/L (61666)	Phorate water, fltrd, 0.7u GF (82664)	Phosmet oxon, water, fltrd, μg/L (61668)	Phosmet water, fltrd, μg/L (61601)
Jun 03...	<.004	<.01	<.008	.021	<.012	<.003	<.010	<.006	<.012	<.03	<.040	<.05	<.008

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 7

[Remark codes: <, less than; E, estimated.]

Date	Prometon, water, filtrd, μg/L (04037)	Prometryn, water, filtrd, μg/L (04036)	Propyzamide, water, filtrd, 0.7u GF μg/L (82676)	Propanal, water, filtrd 0.7u GF μg/L (82679)	Propargite, water, filtrd 0.7u GF μg/L (82685)	Simapine, water, filtrd 0.7u GF μg/L (82685)	Tebuthiuron, water, filtrd 0.7u GF μg/L (04035)	Tefluthrin, water, filtrd, 0.7u GF μg/L (82670)	Terbufos, oxon sulfone, water, filtrd, 0.7u GF μg/L (61606)	Terbufos, water, filtrd, 0.7u GF μg/L (61674)	Terbutylazine, water, filtrd, 0.7u GF μg/L (82675)	Terbencarb, water, filtrd, 0.7u GF μg/L (04022)	Thiocarbamoyl Propiconazole, water, filtrd, μg/L (82681)	trans- Propiconazole, water, filtrd, μg/L (79847)
Jun 03...	E.01	<.006	<.004	<.006	<.04	<.018	<.02	<.003	<.04	<.02	<.01	<.010	<.02	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO
SEPTEMBER 2008

Part 7 of 7

[Remark codes: <, less than; E, estimated.]

Date	Tributrophos, water, filtrd, μg/L (61610)	Trifluorophas, water, filtrd, 0.7u GF μg/L (82661)	Dichloralin, water, filtrd, 0.7u GF μg/L (38775)
Jun 03...	<.035	<.009	<.01